

1 CLAIMS

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3 1. A method of downloading data to a computing device comprising steps of:
4 segmenting a data file into a plurality of portions, said data file being available on a
5 content source;
6 independently downloading each of said plurality of portions to a computing device,
7 wherein each of said plurality of portions are configured to be combined into a single data file on
8 said computing device.

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10 2. The method as claimed in claim 1, wherein at least some of said plurality of portions
11 are approximately equal to 1Mb in size.

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13 3. The method as claimed in claim 1, wherein at least two portions of said plurality of
14 portions have the same size.

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16 4. The method as claimed in claim 1 further comprising steps of:
17 creating a second data file in the computing device having size substantially equal to
18 the size of said first data file before the step of independently downloading; and
19 storing said plurality of portions in the second data file.

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21 5. The method as claimed in claim 4, wherein said step of independently downloading
22 comprises a step of downloading a first predetermined number of bytes of said first data file
23 starting from a first positioned byte of said first data file.

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25 6. The method as claimed in claim 5, wherein said step of independently downloading
26 further comprising a step of downloading a second predetermined number of bytes of said first
27 data file starting from a second positioned byte of said first data file, said second positioned byte
28 being positioned from said first positioned byte by approximately said first predetermined
29 number of bytes.

1 7. The method as claimed in claim 1, further comprising a step of downloading at least
2 two of said plurality of portions by simultaneous threads.

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4 8. The method as claimed in claim 7, wherein four or more of said plurality of portions
5 are downloaded by simultaneous threads.

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7 9. The method as claimed in claim 7, wherein said step of downloading further
8 comprises a step of establishing another simultaneous thread with said computing device for
9 independently downloading another portion of said plurality of portions, if a data transfer speed
10 for any of the currently active threads is approximately greater than or equal to 20 Kb/s.

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12 10. The method as claimed in claim 7, wherein said step of downloading further
13 comprises a step of establishing another simultaneous thread with said computing device for
14 independently downloading another portion of said plurality of portions, if the number of
15 currently active threads is less than a predetermined threshold.

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17 11. A server connectable to a plurality of computing devices through a network, said
18 server being operable to receive a selection of a data file over said network from a computing
19 device, segment said selected data file into a plurality of portions and independently download
20 each of said plurality of portions to said computing device.

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22 12. The server of claim 11, wherein said server is further operable to download at least
23 two of said plurality of portions to said computing device by simultaneous threads.

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25 13. The server of claim 12, wherein at least four of said plurality of portions are
26 downloaded by simultaneous threads.

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28 14. The server of claim 12, wherein said server is operable to download another portion
29 of said plurality of portions by another simultaneous thread if a data transfer speed for any
30 current active threads is approximately greater than or equal to 20kb/s.

1 15. The server of claim 12, wherein said server is operable to download another portion
2 of said plurality of portions by another simultaneous thread if the number of currently active
3 threads is less than a predetermined threshold.

4
5 16. A method of printing a data file stored on a remote content source comprising steps
6 of:

7 receiving a data stream including a data file from a remote content source through a
8 network;

9 storing a first portion of said data file received in said stream;

10 transmitting said first portion of said data file to a printer for printing; and

11 storing a second portion of said data file received in said stream while said first
12 portion is printing.

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14 17. The method of claim 16, further comprising steps of:

15 determining whether said first portion has completed printing;

16 transmitting said second portion to said printer in response to said first portion having
17 completed printing; and

18 determining whether said second portion is completely received in response to said
19 first portion not being completely printed.

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21 18. The method of claim 16 further comprising a step of adjusting a size of said second
22 portion.

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24 19. The method of claim 18, wherein said step of adjusting further comprises steps of:

25 determining a data transfer rate over said network between said remote content source
26 and a computing device performing said steps of claim 16; and

27 adjusting said size depending on the data transfer rate.

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29 20. The method of claim 19, wherein said size of said second portion is adjusted to be
30 greater than said size of said first portion if said data transfer rate is greater than a predetermined

